

ASSY® 4 CSMP universal screw

Steel zinc plated partial thread countersunk milling pocket head

Universal partial-thread screw for fast, gap-free fastening of wood-wood connections in furniture construction, interior fitting or wood construction in indoor dry or sheltered areas

Ideal power transmission thanks to RW drive

- More power due to larger contact area at the bit
- More stability, one-handed working, precise positioning due to the tight-fit recess and perfect fit of the bit
- Fewer bit changes, one bit for many screw diameters
- Compatibility with previous AW drive

Significant reduction in the amount of force required when fastening in the screw

- Less splitting when immersing the shank due to the displacement milling effect of the milling shank
- Minimised risk of screw breakage due to high breaking torque
- Reduced risk of injury from protruding metal chips due to the integration of the milling shank into the thread
- High protection of the application tools

No over-tightening or stripping and high feed

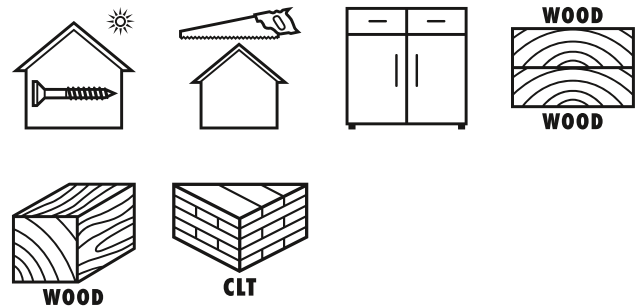
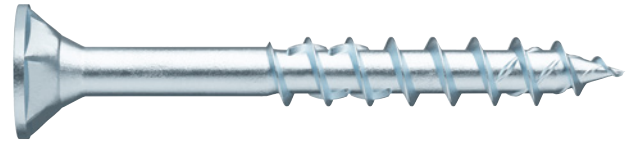
- Higher power transmission in hardwoods due to reinforced, asymmetrical thread flank geometry of the coarse thread
- Better anchoring thanks to higher thread flanks

Smooth thread start ensures optimised recessing and biting of the screw

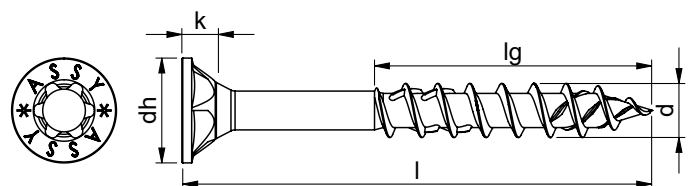
- Reduced splitting effect due to displacement effect of the dome-shaped milling elements in the tip
- Friction-reduced thread rotation allows reduction of the screw-in force to be applied

High strength values and ductility

- Adjusted heat treatment guarantees high strength values and high ductility



Material	Hardened steel
Surface	Zinc plated
RoHS-compliant	Yes



Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Internal drive	Surface	Art. No.	P. Qty.
3 mm	20 mm	12 mm	5.9 mm	1.9 mm	RW10	Zinc plated	0190 130 20	1000
3 mm	25 mm	17 mm	5.9 mm	1.9 mm	RW10	Zinc plated	0190 130 25	1000
3 mm	30 mm	17 mm	5.9 mm	1.9 mm	RW10	Zinc plated	0190 130 30	1000
3 mm	35 mm	22 mm	5.9 mm	1.9 mm	RW10	Zinc plated	0190 130 35	1000
3 mm	40 mm	25 mm	5.9 mm	1.9 mm	RW10	Zinc plated	0190 130 40	500
3.5 mm	20 mm	12 mm	7 mm	2.3 mm	RW20	Zinc plated	0190 135 20	1000
3.5 mm	25 mm	17 mm	7 mm	2.3 mm	RW20	Zinc plated	0190 135 25	1000
3.5 mm	30 mm	18 mm	7 mm	2.3 mm	RW20	Zinc plated	0190 135 30	1000
3.5 mm	35 mm	21 mm	7 mm	2.3 mm	RW20	Zinc plated	0190 135 35	1000
3.5 mm	40 mm	25 mm	7 mm	2.3 mm	RW20	Zinc plated	0190 135 40	500
3.5 mm	45 mm	30 mm	7 mm	2.3 mm	RW20	Zinc plated	0190 135 45	500
3.5 mm	50 mm	30 mm	7 mm	2.3 mm	RW20	Zinc plated	0190 135 50	500
4 mm	20 mm	12 mm	8 mm	2.5 mm	RW20	Zinc plated	0190 140 20	1000
4 mm	25 mm	18 mm	8 mm	2.5 mm	RW20	Zinc plated	0190 140 25	1000
4 mm	30 mm	18 mm	8 mm	2.5 mm	RW20	Zinc plated	0190 140 30	500
4 mm	35 mm	21 mm	8 mm	2.5 mm	RW20	Zinc plated	0190 140 35	500
4 mm	40 mm	24 mm	8 mm	2.5 mm	RW20	Zinc plated	0190 140 40	500
4 mm	45 mm	29 mm	8 mm	2.5 mm	RW20	Zinc plated	0190 140 45	500
4 mm	50 mm	33 mm	8 mm	2.5 mm	RW20	Zinc plated	0190 140 50	500
4 mm	55 mm	34 mm	8 mm	2.5 mm	RW20	Zinc plated	0190 140 55	250
4 mm	60 mm	34 mm	8 mm	2.5 mm	RW20	Zinc plated	0190 140 60	250
4 mm	70 mm	34 mm	8 mm	2.5 mm	RW20	Zinc plated	0190 140 70	200
4.5 mm	35 mm	21 mm	8.9 mm	2.8 mm	RW20	Zinc plated	0190 145 35	500
4.5 mm	40 mm	26 mm	8.9 mm	2.8 mm	RW20	Zinc plated	0190 145 40	500
4.5 mm	45 mm	26 mm	8.9 mm	2.8 mm	RW20	Zinc plated	0190 145 45	500
4.5 mm	50 mm	28 mm	8.9 mm	2.8 mm	RW20	Zinc plated	0190 145 50	250
4.5 mm	60 mm	33 mm	8.9 mm	2.8 mm	RW20	Zinc plated	0190 145 60	250
4.5 mm	70 mm	38 mm	8.9 mm	2.8 mm	RW20	Zinc plated	0190 145 70	200
4.5 mm	80 mm	43 mm	8.9 mm	2.8 mm	RW20	Zinc plated	0190 145 80	200
4.5 mm	100 mm	48 mm	8.9 mm	2.8 mm	RW20	Zinc plated	0190 145 100	100
5 mm	30 mm	20 mm	9.6 mm	3.2 mm	RW20	Zinc plated	0190 150 30	500
5 mm	35 mm	20 mm	9.6 mm	3.2 mm	RW20	Zinc plated	0190 150 35	500
5 mm	40 mm	25 mm	9.6 mm	3.2 mm	RW20	Zinc plated	0190 150 40	500
5 mm	45 mm	30 mm	9.6 mm	3.2 mm	RW20	Zinc plated	0190 150 45	250
5 mm	50 mm	30 mm	9.6 mm	3.2 mm	RW20	Zinc plated	0190 150 50	250
5 mm	55 mm	32 mm	9.6 mm	3.2 mm	RW20	Zinc plated	0190 150 55	250
5 mm	60 mm	37 mm	9.6 mm	3.2 mm	RW20	Zinc plated	0190 150 60	250
5 mm	70 mm	42 mm	9.6 mm	3.2 mm	RW20	Zinc plated	0190 150 70	200
5 mm	80 mm	42 mm	9.6 mm	3.2 mm	RW20	Zinc plated	0190 150 80	100
5 mm	90 mm	47 mm	9.6 mm	3.2 mm	RW20	Zinc plated	0190 150 90	100
5 mm	100 mm	52 mm	9.6 mm	3.2 mm	RW20	Zinc plated	0190 150 100	100
5 mm	110 mm	52 mm	9.6 mm	3.2 mm	RW20	Zinc plated	0190 150 110	100
5 mm	120 mm	62 mm	9.6 mm	3.2 mm	RW20	Zinc plated	0190 150 120	100
6 mm	40 mm	24 mm	12 mm	4.4 mm	RW40	Zinc plated	0190 160 40	250
6 mm	50 mm	32 mm	12 mm	4.4 mm	RW40	Zinc plated	0190 160 50	250
6 mm	60 mm	37 mm	12 mm	4.4 mm	RW40	Zinc plated	0190 160 60	200/1000
6 mm	70 mm	42 mm	12 mm	4.4 mm	RW40	Zinc plated	0190 160 70	200
6 mm	80 mm	50 mm	12 mm	4.4 mm	RW40	Zinc plated	0190 160 80	100
6 mm	90 mm	50 mm	12 mm	4.4 mm	RW40	Zinc plated	0190 160 90	100
6 mm	100 mm	60 mm	12 mm	4.4 mm	RW40	Zinc plated	0190 160 100	100
6 mm	110 mm	70 mm	12 mm	4.4 mm	RW40	Zinc plated	0190 160 110	100
6 mm	120 mm	70 mm	12 mm	4.4 mm	RW40	Zinc plated	0190 160 120	100
6 mm	130 mm	70 mm	12 mm	4.4 mm	RW40	Zinc plated	0190 160 130	100

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Internal drive	Surface	Art. No.	P. Qty.
6 mm	140 mm	70 mm	12 mm	4.4 mm	RW40	Zinc plated	0190 160 140	100
6 mm	150 mm	70 mm	12 mm	4.4 mm	RW40	Zinc plated	0190 160 150	100
6 mm	160 mm	70 mm	12 mm	4.4 mm	RW40	Zinc plated	0190 160 160	100
6 mm	180 mm	70 mm	12 mm	4.4 mm	RW40	Zinc plated	0190 160 180	100
6 mm	200 mm	70 mm	12 mm	4.4 mm	RW40	Zinc plated	0190 160 200	100
6 mm	220 mm	70 mm	12 mm	4.4 mm	RW40	Zinc plated	0190 160 220	100
6 mm	240 mm	70 mm	12 mm	4.4 mm	RW40	Zinc plated	0190 160 240	100
6 mm	260 mm	70 mm	12 mm	4.4 mm	RW40	Zinc plated	0190 160 260	100
6 mm	280 mm	70 mm	12 mm	4.4 mm	RW40	Zinc plated	0190 160 280	100
6 mm	300 mm	70 mm	12 mm	4.4 mm	RW40	Zinc plated	0190 160 300	100
7 mm	80 mm	50 mm	13.7 mm	4.7 mm	RW40	Zinc plated	0190 170 80	100
7 mm	90 mm	50 mm	13.7 mm	4.7 mm	RW40	Zinc plated	0190 170 90	100
7 mm	100 mm	60 mm	13.7 mm	4.7 mm	RW40	Zinc plated	0190 170 100	100
7 mm	120 mm	70 mm	13.7 mm	4.7 mm	RW40	Zinc plated	0190 170 120	100
7 mm	140 mm	70 mm	13.7 mm	4.7 mm	RW40	Zinc plated	0190 170 140	100
7 mm	160 mm	85 mm	13.7 mm	4.7 mm	RW40	Zinc plated	0190 170 160	100
7 mm	180 mm	85 mm	13.7 mm	4.7 mm	RW40	Zinc plated	0190 170 180	100
7 mm	200 mm	85 mm	13.7 mm	4.7 mm	RW40	Zinc plated	0190 170 200	100
7 mm	220 mm	85 mm	13.7 mm	4.7 mm	RW40	Zinc plated	0190 170 220	100
7 mm	240 mm	85 mm	13.7 mm	4.7 mm	RW40	Zinc plated	0190 170 240	100
7 mm	260 mm	85 mm	13.7 mm	4.7 mm	RW40	Zinc plated	0190 170 260	100
7 mm	280 mm	85 mm	13.7 mm	4.7 mm	RW40	Zinc plated	0190 170 280	100
7 mm	300 mm	85 mm	13.7 mm	4.7 mm	RW40	Zinc plated	0190 170 300	100
8 mm	80 mm	50 mm	15 mm	4.9 mm	RW40	Zinc plated	0190 180 80	75
8 mm	100 mm	60 mm	15 mm	4.9 mm	RW40	Zinc plated	0190 180 100	75
8 mm	120 mm	80 mm	15 mm	4.9 mm	RW40	Zinc plated	0190 180 120	75
8 mm	140 mm	80 mm	15 mm	4.9 mm	RW40	Zinc plated	0190 180 140	75
8 mm	160 mm	80 mm	15 mm	4.9 mm	RW40	Zinc plated	0190 180 160	75
8 mm	180 mm	80 mm	15 mm	4.9 mm	RW40	Zinc plated	0190 180 180	75
8 mm	200 mm	80 mm	15 mm	4.9 mm	RW40	Zinc plated	0190 180 200	75
8 mm	220 mm	100 mm	15 mm	4.9 mm	RW40	Zinc plated	0190 180 220	75
8 mm	240 mm	100 mm	15 mm	4.9 mm	RW40	Zinc plated	0190 180 240	75
8 mm	260 mm	100 mm	15 mm	4.9 mm	RW40	Zinc plated	0190 180 260	75
8 mm	280 mm	100 mm	15 mm	4.9 mm	RW40	Zinc plated	0190 180 280	75
8 mm	300 mm	100 mm	15 mm	4.9 mm	RW40	Zinc plated	0190 180 300	75
8 mm	320 mm	100 mm	15 mm	4.9 mm	RW40	Zinc plated	0190 180 320	100
8 mm	340 mm	100 mm	15 mm	4.9 mm	RW40	Zinc plated	0190 180 340	100
8 mm	360 mm	100 mm	15 mm	4.9 mm	RW40	Zinc plated	0190 180 360	100
8 mm	380 mm	100 mm	15 mm	4.9 mm	RW40	Zinc plated	0190 180 380	100
8 mm	400 mm	100 mm	15 mm	4.9 mm	RW40	Zinc plated	0190 180 400	100
10 mm	80 mm	50 mm	18.5 mm	5.8 mm	RW40	Zinc plated	0190 110 80	50
10 mm	100 mm	60 mm	18.5 mm	5.8 mm	RW40	Zinc plated	0190 110 100	50
10 mm	120 mm	80 mm	18.5 mm	5.8 mm	RW40	Zinc plated	0190 110 120	50
10 mm	140 mm	80 mm	18.5 mm	5.8 mm	RW40	Zinc plated	0190 110 140	50
10 mm	160 mm	100 mm	18.5 mm	5.8 mm	RW40	Zinc plated	0190 110 160	50
10 mm	180 mm	100 mm	18.5 mm	5.8 mm	RW40	Zinc plated	0190 110 180	50
10 mm	200 mm	100 mm	18.5 mm	5.8 mm	RW40	Zinc plated	0190 110 200	50
10 mm	220 mm	100 mm	18.5 mm	5.8 mm	RW40	Zinc plated	0190 110 220	50
10 mm	240 mm	100 mm	18.5 mm	5.8 mm	RW40	Zinc plated	0190 110 240	50
10 mm	260 mm	100 mm	18.5 mm	5.8 mm	RW40	Zinc plated	0190 110 260	50
10 mm	280 mm	100 mm	18.5 mm	5.8 mm	RW40	Zinc plated	0190 110 280	50
10 mm	300 mm	100 mm	18.5 mm	5.8 mm	RW40	Zinc plated	0190 110 300	50
10 mm	320 mm	120 mm	18.5 mm	5.8 mm	RW40	Zinc plated	0190 110 320	50

Nominal diameter (d)	Length (l)	Thread length (lg)	Head diameter (d _h)	Head height (k)	Internal drive	Surface	Art. No.	P. Qty.
10 mm	340 mm	120 mm	18.5 mm	5.8 mm	RW40	Zinc plated	0190 110 340	50
10 mm	360 mm	120 mm	18.5 mm	5.8 mm	RW40	Zinc plated	0190 110 360	50
10 mm	380 mm	120 mm	18.5 mm	5.8 mm	RW40	Zinc plated	0190 110 380	50
10 mm	400 mm	120 mm	18.5 mm	5.8 mm	RW40	Zinc plated	0190 110 400	50

Can be stored neatly in ORSY racks or ORSYMAT vending machines

Details/Application

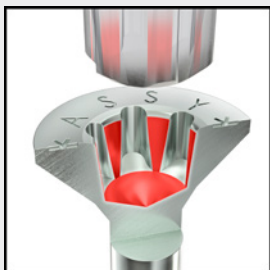
For wood-wood connections designed to pull together

The partial thread starting immediately below the shank allows for wood-wood connections designed to pull together. The screw thread is positioned entirely in the lower component once screwed in.

For applications in utilisation class 1 and utilisation class 2 (from $\varnothing > 4$ mm)

- High-quality surface protection zinc blue passivated chromium(VI)-free, up to \varnothing 4 mm A2K 5 μ m, from \varnothing 4.5 mm A3K 8 μ m layer thickness
- Suitable for use in utilisation class 1 (interior) and from a $\varnothing > 4$ mm in utilisation class 2 (covered outdoor area) according to EN 1995-1-1:2010-12 + DIN SPEC 1052-100:2013-08
- For screws from \varnothing 4.5 mm with zinc layer thickness 8 μ m with Cr(III) passivation, the requirement of classification T2/C2 is fulfilled in accordance with prEN 14592:2017 (D)

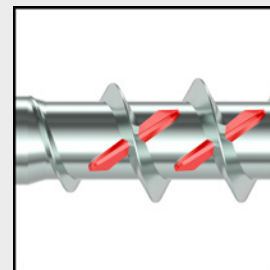
RW drive



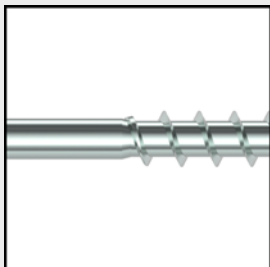
Countersunk head with milled pockets



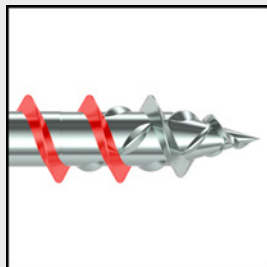
Integrated milling shank from \varnothing 5 mm and length 70 mm



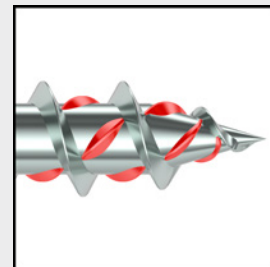
Partial thread



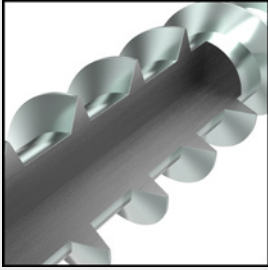
Asymmetrical high-performance thread (coarse)



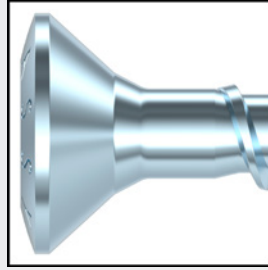
Tip with milling ribs



Hardened steel



Zinc-plated/A2K or A3K



Instructions

- To increase the joining effect or head pull-through resistance, combining with perfectly fitting washers for ASSY 4 is recommended
- ASSY screws are approved for quasi-static loads
- For optimum use of the screw, the right-size RW bit must be used
- Partial-thread screws are ideal for connecting wooden components. To achieve optimum assembly of the components, the components to be fixed must not be thicker than the length of the shank

Proof of performance

ETA-11/0190 approved



Notice

- We recommend using the Würth software or the corresponding design aids for planning and dimensioning your assembly. Use the Würth timber construction software for dimensioning of ASSY screws from a diameter of 5 mm
- Do not use the screw in applications with direct exposure to the elements or in humid rooms with atmospheres containing chlorine gas. If used outdoors and in rooms that are constantly exposed to high humidity, please use ASSY 4 A2 or A4 stainless steel screws and, if atmosphere contains chlorine, HCR stainless steel screws
- ASSY 4, ASSYplus 4 and ASSYplus 4 FT chipboard screws are optimised for use in wood and wood materials. For applications in plastic anchors where load capacity can also be reduced, use only screws without an optimised thread tip (tip with milling ribs, drill tip, self-clearing groove etc.), such as the ASSY D screws with countersunk head or pan head

The requirements of the European Technical Approval (ETA) must be observed